

Business Purchasing Solution, LLC



OneIndiana

Hundreds of vendors. Thousands of products. Millions in savings.

# BPS Live Vendor Integration

Catalog Data Feed- Auto Upload

2008

## Overview

In this document you will find the technical specification for a vendor to upload cXML catalog data to BPS for immediate processing. BPS has chosen the cXML standards in order to streamline third party integrations. The cXML standards are freely available and have been endorsed by some the largest companies in the world. More information about the cXML standards can be found at <http://cxml.org>.

## Catalog Upload

### Overview

Catalog data may be uploaded in two formats. The first, and preferred, is the cXML catalog definition format. Details on BPS Live's implementation of cXML catalog definition can be found below. The other supported format is a Comma Separated Value file or CSV. The CSV file format is a flattened version of the cXML format that contains all the same fields but is restricted to 5 user defined item attributes.

### FTP Site

The ftp site will be located at [ftp.bpslive.com/\[VendorName\]](ftp.bpslive.com/[VendorName]). A login will be required.

User Name:

Password:

### File Format - cXML Index node

BPS Live will adhere to the cXML catalog definition specification located at [cXML v 1.2.017](#). Some child nodes and attributes will be supported, required and ignored as denoted below.

- Supported
- **Required**
- Ignored

```
<Index loadmode="full">
  <SupplierID domain="VendorId">[GUID - Supplied by BPS]</SupplierID>
  <SupplierID domain="CatalogId">[GUID - Supplied by BPS]</SupplierID>
  <Comments />
  <SearchGroup />
  <IndexItem>
    <IndexItemAdd>
      <ItemID>
        <SupplierPartID></SupplierPartID>
        <SupplierPartAuxiliary />
      </ItemID>
      <ItemDetail>
        <UnitPrice>
          <Money currency="USD" alternateAmount="0"
            alternateCurrency="0"></Money>
        </UnitPrice>
        <Description lang="en">
          <ShortName></ShortName>
        </Description>
        <UnitOfMeasure></UnitOfMeasure>
        <Classification domain="UNSPSC"></Classification>
        <ManufacturerPartID></ManufacturerPartID>
        <ManufacturerName lang="en"></ManufacturerName>
        <URL />
        <LeadTime />
        <Extrinsic name="SmallImageURL"></Extrinsic>
        <Extrinsic name="MediumImageURL"></Extrinsic>
        <Extrinsic name="LargeImageURL"></Extrinsic>
        <Extrinsic name="Category"></Extrinsic>
        <Extrinsic name="Keywords"></Extrinsic>
        <Extrinsic name="Weight"></Extrinsic>
        <Extrinsic name="SalesRank"></Extrinsic>
        <Extrinsic name="ManufacturerDescription"></Extrinsic>
        <Extrinsic name="IsAssemblyRequired"></Extrinsic>
      </ItemDetail>
    </IndexItemAdd>
  </IndexItem>
</Index>
```

```

        <Extrinsic name="ContainsRecycledMaterial"></Extrinsic>
        <Extrinsic name="IsUPSable"></Extrinsic>
        <Extrinsic name="IsValuePack"></Extrinsic>
        <Extrinsic name="MSDURL"></Extrinsic>
        <Extrinsic name="IsContractPrice"></Extrinsic>
        <Extrinsic name="AccessoryItemNumber"></Extrinsic>
        <Extrinsic name="GenericItemNumber"></Extrinsic>
        <Extrinsic name="ListPrice"></Extrinsic>
        <Extrinsic name="other"></Extrinsic>
    </ItemDetail>
    <IndexItemDetail>
        <LeadTime />
        <ExpirationDate></ExpirationDate>
        <EffectiveDate></EffectiveDate>
        <SearchGroupData />
        <TerritoryAvailable />
    </IndexItemDetail>
</IndexItemAdd>
<IndexItemDelete>
    <ItemID>
        <SupplierPartID></SupplierPartID>
        <supplierPartAuxiliaryID />
    </ItemID>
</IndexItemDelete>
    <IndexItemPunchout />
</IndexItem>
</Index>

```

Nodes of interest:

**<Index loadmode="full">**: The loadmode attribute will always be treated as incremental. BPS does not support a complete (loadmode="full") replacement of a catalog.

**<UnitPrice>**: The currency attribute should always be set to "USD".

**<Description>**: The Description node is required to be present with the <ShortName> child node. The ShortName node will host the short description of the item, which is required, while the Description node will host the long description of the item (along with the ShortName child node). Also, BPS will support only one (1) Description node per item.

**<Classification>**: If the Classification node(s) are used, BPS only supports domain attribute values of "UNSPSC" or "UPC". If other domains are listed they will be ignored.

**<Extrinsic>**: The Extrinsic nodes listed above are supported properties of catalog items in the BPS product. Any number of other Extrinsic nodes can be listed as name/value attributes of the item (e.g. <Extrinsic name="Color">Black</Extrinsic>).

**SmallImageURL & MediumImageURL**: These nodes should list the secured URL of where an image of the product can be located (e.g. <https://imagesource.com/small/PartNumber.jpg>). The LargeImageURL does not need to be located at a secure URL. The suggested size for the small image is 100x100px and the suggested size for the medium image is 240x240px. The large image can be of any size as it is displayed in a popup window.

**Category**: The Category node is required.

**Keywords:** The Keywords node should be used to list features of the item that would be useful during a search.

**AccessoryItemNumber:** The AccessoryItemNumber node should be used to indicate that the current item has an accessory and this is its ItemNumber. Each item can have multiple accessories.

**GenericItemNumber:** The GenericItemNumber node should be used to indicate that the current item has a generic (or low cost alternative) item associated with it. Each item can have multiple generic items.

**Weight:** The Weight node should denote the decimal weight of the item in pounds (lbs.).

**Example:** `<Extrinsic name="Weight">5.3</Extrinsic>`

**<EffectiveDate>:** BPS Live will use this node to indicate the date that the pricing is effective for the catalog item.

## File Format – CSV

BPS Live will support the creation/update/removal of catalog items via a CSV file. The VendorId and CatalogId columns are values supplied by BPS.

**Creating/Update:** These lines must begin with the word “add” and are then followed by a comma separated list of properties to define the item. Values that contain commas should be wrapped in double quotes (“”). Should a wrapped value contain a double quote that double quote should be doubled (“”). In other words if the value contains the text [Classroom chairs, 14” seat height...] the value in the CSV would look like this [“Classroom chairs, 14”” seat height...”]. Listed below are the columns for creating/updating items via CSV and their types. Columns that are bold are required. Any columns without data must still have a comma to identify that empty column.

```

VendorId [GUID]
CatalogId [GUID]
Category [string]
Item Number [string]
UOM [string]
Short Description [string]
Long Description [string]
Keywords [string]
Sales Rank [int]
Weight (lbs) [decimal]
Manufacturer Name [string]
Manufacturer Description [string]
Manufacturer Part Number [string]
Is Assembly Required ["TRUE" or "FALSE"]
Contains Recycled Material ["TRUE" or "FALSE"]
Is UPSable ["TRUE" or "FALSE"]
Is Value Pack ["TRUE" or "FALSE"]
UPC Code [string]
MSDS Url [string]
UN Standard Product Service Code [string]
Small Image URL [string]
Medium Image URL [string]
Large Image URL [string]
Attribute 1 Name [string]

```

```

Attribute 1 Value [string]
Attribute 2 Name [string]
Attribute 2 Value [string]
Attribute 3 Name [string]
Attribute 3 Value [string]
Attribute 4 Name [string]
Attribute 4 Value [string]
Attribute 5 Name [string]
Attribute 5 Value [string]
Accessory Item Number 1 [string]
Accessory Item Number 2 [string]
Accessory Item Number 3 [string]
Accessory Item Number 4 [string]
Accessory Item Number 5 [string]
Generic Item Number 1 [string]
Generic Item Number 2 [string]
Generic Item Number 3 [string]
Generic Item Number 4 [string]
Generic Item Number 5 [string]
Price [decimal]
Price Effective Date [datetime]
Is Contract Price ["TRUE" or "FALSE"]
List Price [decimal]

```

**Remove:** These lines must begin with the word “delete” and are then followed by the vendor Id, catalog Id and item number.

The following example shows one “add” line and one “delete” line. Due to the length of the add line it has wrapped to multiple lines in the document.

**Example:**

```

add, 6DFC3B3F-0913-4fe5-AD1C-05ABF0A91018, 71BEE7C8-4378-43e7-9163-07C24582876D, "Classroom
Chairs, 14"" Seat Height",VRI9440,CT,"9600 Series Classroom Chairs 14"" Seat Height
Blueberry/Chrome 4/Carton","9600 Classic Series&#153; Classroom Chairs 14"" Seat
Height<br>Coordinates with your learning environment. Soft plastic seat molded of high-density
polyethelene. Sled base with chrome finish is designed specifically for carpeted surfaces. Chairs
stack for easy storage. 15w x 15d x 23-1/4h. Four chairs per carton. Shpg. wt. 25
lbs.<br>Blueberry",9600 Classic Series™ Classroom
Chairs;Lunchroom/Cafeteria;Stacking;Training/Activity;VIRCO,delete,25,VIRCO,School
Supplier,961440,FALSE,TRUE,TRUE,FALSE,46231834045,delete,56101522,https://www.images.com/CatalogI
mages/US/Thumbnails/XVIR4490.JPG, https://www.images.com/CatalogImages/US/Standard/XVIR4490.JPG,
http://www.images.com/CatalogImages/US/large/XVIR4490.JPG,Color,Blue,Stain
Resistent,Yes,,,,,Active,259.987,,
delete, 6DFC3B3F-0913-4fe5-AD1C-05ABF0A91018, 71BEE7C8-4378-43e7-9163-07C24582876D, BIN525009

```

Please contact your IDOA Purchasing Agent should you have any questions.